
Subject: Re: Rubberband box for object graphics
Posted by [David Fanning](#) on Fri, 11 Feb 2005 14:10:11 GMT
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"Rainnie, JA \(\John\)" <J.A.Rainnie@rl.ac.uk> writes:

- > I'm delving into the IDL graphics objects, and specifically I wish to
- > develop a plot window using the IDLgrPlot class. Thanks to several
- > examples (mostly Dave Fanning's xPlot) I've managed to do this.
- > However, I really need to implement a rubberband box so the user can
- > interactively zoom into this plot (like DF's zPlot). The conversion from
- > device to data coordinates is of course done in direct graphics with the
- > Convert_Coord function. However, I can't find any examples of how this
- > is done for object graphics.
- >
- > Has anyone done this - and are there any examples you can direct me to.

I've never done this, but my little program SCALE_VECTOR has solved an awful lot of problems like this for me, and I think that is where I would start. You will know the endpoints of your box (in the X direction), and you will know the X extent of your View in the draw widget, so the conversion would look something like this:

```
dataCoords = Scale_Vector([boxPt[0], boxPt[1]], view_x[0], view_x[1])
```

Scale_Vector is found in the usual place. :-)

Cheers,

David

P.S. After writing the code for Scale_Vector (I had a flash of insight after working on an object graphics project) I promptly forgot how it is that it works. But it does work, spectacularly well. So I think whatever the algorithm is in there, that is what you want to employ in any object graphics coordinate conversion routine.

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>